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1 **Versions of Schema for Object-Oriented Databases**
Won Kim, Hong-Tai Chou
August 1988 **VLDB '88:** Proceedings of the 14th International Conference on Very Large
        Data Bases
Publisher: Morgan Kaufmann Publishers Inc.
Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 31

2 **A model for compound type changes encountered in schema evolution**
Barbara Staudt Lerner
March 2000 **Transactions on Database Systems (TODS)**, Volume 25 Issue 1
Publisher: ACM
Full text available: Pdf (430.66 KB) Additional Information: full citation, abstract, references, cited by, inde
                                                              terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 82,   Citation Count: 14

Schema evolution is a problem that is faced by long-lived data. When a schema
changes, existing persistent data can become inaccessible unless the database system
provides mechanisms to access data created with previous versions of the schema. Mo
existing ...

Keywords: persistent programming languages, schema evolution

3 **Design and development of a multiversion OLAP application**
Jarernsri L. Mitrpanont, Somchart Fugkeaw
April 2006 **SAC '06:** Proceedings of the 2006 ACM symposium on Applied computing
Publisher: ACM
Full text available: Pdf (230.49 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 62,   Citation Count: 0

This paper proposes a temporal version mapping concept and a SQL query rewriting
technique to support the OLAP query analysis in multidimensional database (MDB)
systems modeled on multiversion schema. Based on our proposed model, an integratic
solution ...

Keywords: OLAP query, multidimensional database, query rewriting technique,
temporal version

4 **A distributed object-oriented database system supporting shared and private
databases**
Won Kim, Nat Ballou, Jorge F. Garza, Darrell Woelk
January 1991 **Transactions on Information Systems (TOIS)**, Volume 9 Issue 1

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ORION-2 is a commercially available, federated, object-oriented database managemen system designed and implemented at MCC. One major architectural innovation in ORION-2 is the coexistence of a shared databese and a number of private databases. The shared ...

Keywords: client-server architecture, federated databases, object-oriented databases

5 Managing and querying transaction-time databases under schema evolution
Hyun J. Moon, Carlo A. Curino, Alin Deutsch, Chien-Yi Hou, Carlo Zaniolo
August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 1
Publisher: VLDB Endowment

Full text available: Pdf (888.65 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20,   Downloads (12 Months): 41,   Citation Count: 1

The old problem of managing the history of database information is now made more urgent and complex by fast spreading web information systems, such as Wikipedia. Ou *PRIMA* system addresses this difficult problem by introducing two key pieces of ...

6 Graceful database schema evolution: the PRISM workbench
Carlo A. Curino, Hyun J. Moon, Carlo Zaniolo
August 2008 **Proceedings of the VLDB Endowment** , Volume 1 Issue 1
Publisher: VLDB Endowment

Full text available: Pdf (859.42 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 26,   Downloads (12 Months): 60,   Citation Count: 1

Supporting graceful schema evolution represents an unsolved problem for traditional information systems that is further exacerbated in web information systems, such as Wikipedia and public scientific databases: in these projects based on multiparty cooperation ...

7 Applications of corpus-based semantic similarity and word segmentation to database schema matching
Aminul Islam, Diana Inkpen, Iluju Kiringa
August 2008 **The VLDB Journal — The International Journal on Very Large Data Bases** , Volume 17 Issue 5
Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (1.78 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 92,   Citation Count: 1

In this paper, we present a method for database schema matching: the problem of identifying elements of two given schemas that correspond to each other. Schema matching is useful in e-commerce exchanges, in data integration/warehousing, and in semantic ...

Keywords: Corpus-based methods, Database schema matching, Semantic similarity, Word segmentation

8 WYSIWYG development of data driven web applications
Fan Yang, Nitin Gupta, Chavdar Botev, Elizabeth F Churchill, George Levchenko, Jayavel Shanmugasundaram

Full text available: Pdf (854.78 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 90, Citation Count: 0

An emerging trend in Social Networking sites and Web portals is the opening up of the APIs to external application developers. For example, the Facebook Platform, Google Gadgets and Yahoo! Widgets allow developers to design their own applications, ...

9 Native XML support in DB2 universal database
Matthias Nicola, Bert van der Linden
August 2005 **VLDB '05:** Proceedings of the 31st international conference on Very large da bases
Publisher: VLDB Endowment
Full text available: Pdf (240.25 KB) Additional Information: full citation, abstract, references, cited by, inde terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 114, Citation Count: 12

The major relational database systems have been providing XML support for several years, predominantly by mapping XML to existing concepts such as LOBs or (object-) relational tables. The limitations of these approaches are well known in research and ..

10 Impact analysis of database schema changes
Andy Maule, Wolfgang Emmerich, David S. Rosenblum
May 2008 **ICSE '08:** Proceedings of the 30th international conference on Software engineering
Publisher: ACM
Full text available: Pdf (699.16 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 247, Citation Count: 0

We propose static program analysis techniques for identifying the impact of relational database schema changes upon object-oriented applications. We use dataflow analysis to extract all possible database interactions that an application may make. We ...

Keywords: impact analysis

11 Preserving XML queries during schema evolution
Mirella M. Moro, Susan Malaika, Lipyeow Lim
May 2007 **WWW '07:** Proceedings of the 16th international conference on World Wide We
Publisher: ACM
Full text available: Pdf (179.30 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 57, Citation Count: 1

In XML databases, new schema versions may be released as frequently as once every two weeks. This poster describes a taxonomy of changes for XML schema evolution. It examines the impact of those changes on schema validation and query evaluation. Based ...

Keywords: XML query, XML schema evolution

12 Multi-dimensional clustering: a new data layout scheme in DB2
Sriram Padmanabhan, Bishwaranjan Bhattacharjee, Tim Malkemus, Leslie Cranston, Matthew Huras
June 2003 **SIGMOD '03:** Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: Pdf (168.35 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 73,   Citation Count: 10

We describe the design and implementation of a new data layout scheme, called multi-dimensional clustering, in DB2 Universal Database Version 8. Many applications, e.g., OLAP and data warehousing, process a table or tables in a database using a multi-dimensional ...

13 Schema Versioning in Multi-temporal XML Databases

Zouhaier Brahmia, Rafik Bouaziz

May 2008 **I CI S '08: Proceedings of the Seventh I EEE/ ACI S I nternational Conference on Com puter and I nform ation Science (icis 2008) - Volum e 00** , Volume 00

Publisher: IEEE Computer Society

Full text available: Publisher Site   Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

Schema evolution keeps only the current data and the schema version after applying schema changes. On the contrary, schema versioning creates new schema versions an preserves old schema versions and their corresponding data. Much research work has recently ...

Keyw ords: Temporal databases, XML databases, Schema versioning, XML Schema

14 Database schema evolution using EVER diagrams

Chien-Tsai Liu, Shi-Kuo Chang, Panos K. Chrysanthis

June 1994 **AVI '94:** Proceedings of the workshop on Advanced visual interfaces

Publisher: ACM

Full text available: Pdf (863.63 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 30,   Citation Count: 3

We present an approach to schema evolution through changes to the ER diagram representing the schema of a database. In order to facilitate changes to the ER schema we enhance the graphical constructs used in ER diagrams, and develop EVER, an EVolutionary ...

15 MoodView: an advanced graphical user interface for OODBMSs

İsmailcem Budak Arpinar, Asuman Doğaç, Cem Evrendilek

December 1993 **SI GMOD Record** , Volume 22 Issue 4

Publisher: ACM

Full text available: Pdf (777.58 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2,   Downloads (12 Months): 27,   Citation Count: 3

OODBMSs need more than declarative query languages and programming languages a their interfaces since they are designed and implemented for complex applications requiring more advanced and easy to use visual interfaces. We have developed a complete ...

Keyw ords: graphical user interfaces, object-oriented databases

16

A distributed engineering database management system for IC design

Wanlin Cao, Y. Edmund Lien, Yuane Qiu, Li Shao
February 1991 **EURO-DAC '91:** Proceedings of the conference on European design
automation
Publisher: IEEE Computer Society Press
Full text available: Pdf (363.34 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 5, Citation Count: 0

We describe a distributed engineering database subsystem (DDB) which is an integral
part of the framework in the PANDA IC-CAD system. DDB provides a simple but efficie
method for organizing the IC design data in a distributed environment. With version ...

17 Using Dijkstra's algorithm to incrementally find the k-Nearest Neighbors in spatial
network databases
Victor Teixeira de Almeida, Ralf Hartmut Güting
April 2006 **SAC '06:** Proceedings of the 2006 ACM symposium on Applied computing
Publisher: ACM
Full text available: Pdf (166.18 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 163, Citation Count: 4

One of the most important kinds of queries in Spatial Network Databases (SNDB) to
support Location-Based Services (LBS) is the k-Nearest Neighbors (k-NN) query. Giver
a point in a network, e.g. a location of a car on a road network, and ...

Keywords: index structures, location-based services, nearest neighbors, spatial
databases

18 Efficient query processing for multi-dimensionally clustered tables in DB2
Bishwaranjan Bhattacharjee, Sriram Padmanabhan, Timothy Malkemus, Tony Lai, Leslie
Cranston, Matthew Huras
September 2003 **VLDB '2003: Proceedings of the 29th international conference on
Very large data bases - Volume 29** , Volume 29
Publisher: VLDB Endowment
Full text available: Pdf (189.43 KB) Additional Information: full citation, abstract, references, cited by, inde
terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 23, Citation Count: 5

We have introduced a Multi-Dimensional Clustering (MDC) physical layout scheme in
DB2 version 8.0 for relational tables. Multi-Dimensional Clustering is based on the
definition of one or more orthogonal clustering attributes (or expressions) of a table. ..

19 Implementing XQuery 1.0: the Galax experience
Mary Fernández, Jérôme Siméon, Byron Choi, Amélie Marian, Gargi Sur
September 2003 **VLDB '2003: Proceedings of the 29th international conference on
Very large data bases - Volume 29** , Volume 29
Publisher: VLDB Endowment
Full text available: Pdf (25.22 KB) Additional Information: full citation, abstract, references, cited by, inde
terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 36, Citation Count: 2

Galax is a light-weight, portable, open-source implementation of XQuery 1.0. Started i
December 2000 as a small prototype designed to test the XQuery static type system,
Galax has now become a solid implementation, aiming at full conformance with the ...

20 Knowledge management and XML: derivation of synthetic views over semi-
structured data
Mario Cannataro, Antonella Guzzo, Andrea Pugliese

Full text available: Pdf (126.01 KB) Additional Information: full citation, abstract, references, cited by, index terms

One of the effects of the expansion of the World Wide Web is the production of a huge amount of data, differentiated for type, available to a large number of different users. Furthermore, the constant progress of computer hardware technology in the ...

Keywords: XML, data synthesization, lossy compression

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